

L3 ANSWER 1 OF 33 CA COPYRIGHT 2003 ACS  
 AN 136:171600 CA  
 TI **Porous silicate** granule as lightweight aggregate and  
 its production  
 IN Schelinski, Siegfried  
 PA Matting & Lindner G.m.b.H., Germany  
 SO Eur. Pat. Appl., 5 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 IC ICM C04B014-24  
 ICS C04B038-00  
 CC 58-3 (Cement, Concrete, and Related Building Materials)  
 Section cross-reference(s): 57

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1180503	A2	20020220	EP 2001-250284	20010727
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 10042071	C1	20020321	DE 2000-10042071	20000816
	DE 20022776	U1	20020502	DE 2000-20022776	20000816
	US 2002073898	A1	20020620	US 2001-931126	20010816
PRAI	DE 2000-10042071	A	20000816		

AB A **porous silicate** granule is suitable as aggregate for  
 the manuf. of building materials such as lightwt. **concrete**,  
**mortar**, or heat-insulating **plaster**. The granule  
 contains glass, and a glass-type, cryst. material 5-75 wt.%, which  
 consists of: SiO<sub>2</sub> 45-85, alkali oxide 5-20, alk. earth oxides 5-30, and  
 oxide selected from Al<sub>2</sub>O<sub>3</sub>, and/or Fe<sub>2</sub>O<sub>3</sub> 2-30 wt.%. The glass-type, cryst.  
 material is the sintered product of powd. quartz, clay, portland  
**cement**, sodium hydroxide, an expanding agent, and optionally  
 further additives. The silicate granule is produced by mixing,  
 agglomeration, intermediate storage, drying, heat-treatment at  
 700.degree.-1250.degree. by CO<sub>2</sub> supply, or CO<sub>2</sub> exclusion, furthermore  
 sintering, and swelling.

ST silicate granule sintering lightwt aggregates **concrete**; glass  
 granule silica alumina swelling **plaster**

IT Powders  
 (ceramic; **porous silicate** granule

=> d his

(FILE 'HOME' ENTERED AT 12:48:43 ON 16 JUN 2003)

FILE 'CA' ENTERED AT 12:48:50 ON 16 JUN 2003

L1	0 S POROUS NEAR SILICATE
L2	294 S POROUS(W) SILICATE
L3	33 S L2 AND (CEMENT OR CONCRETE OR MORTAR OR PLASTER)

=>